3-2 Configuring the I/O Professional

Prior to installing the I/O Professional board in your computer, verify the jumper switches on the board for proper operation. To do this, you must know the following about your computer:

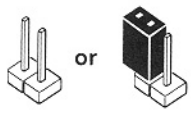
Are there any other hard and/or floppy disk drive controllers installed in your computer?

Are there any serial or parallel ports currently installed in your computer? If so, what I/O port addresses and Interrupts (IRQ) do they use?

After determining your computer's configuration (by running MSD.EXE), make sure the port addresses and IRQs set on the I/O Professional are different from any existing ports in your system. A conflict results when two addresses or IRQ settings are the same. Refer to the next sections for determining the correct jumper settings for configuring ports on the board.

3-2.1 Setting Jumpers

The I/O port address and interrupt request is jumper selectable for each port. When setting the jumpers, the terms "open" and "closed" are defined as:



Open
(No Jumper Installed)

Closed
(Jumper Installed)

NOTE: An instrument such as tweezers or needle nose pliers can be used to gently remove the jumpers from the jumper blocks.

To install a jumper, center it over the two appropriate pins and push down gently until it is seated.

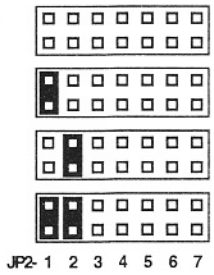
3-2.2 Serial Port 1

The primary Serial Port 1 provides a standard DB9 9-pin connector mounted on the board. It is factory set as **COM1** with I/O port address **3F8–3FF** and **IRQ4**. If this conflicts with your current configuration, refer to the following table for another option.

I/O Port Address – JP2

Port	Address	Jumper Settings JP2-1	JP2-2
*COM1	3F8–3FF	Open	Open
COM3	3E8–3EF	Closed	Open
COM4	2E8–2EF	Open	Closed
Disable		Closed	Closed

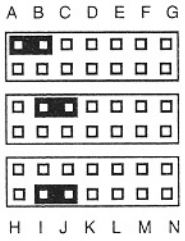
JP2



Interrupt Request (IRQ) — JP1

IRQ	JP1 Jumper Setting
*IRQ 4	A & B
IRQ 5	B & C
IRQ 9	I & J

JP1



*= *Factory Default*

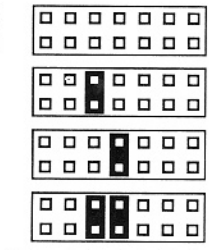
3-2.3 Serial Port 2

If you intend to use the secondary Serial Port 2 on the I/O Professional, you must install the second serial port connector included with the board. This port is factory set as **COM2** with I/O port address **2F8–2FF** and **IRQ3**. If this conflicts with your current configuration, refer to the following table for another option.

I/O Port Address – JP2

Port	Address	Jumper Settings JP2-3	JP2-4
*COM2	2F8–2FF	Open	Open
COM4	2E8–2EF	Closed	Open
COM3	3E8–3EF	Open	Closed
Disable		Closed	Closed

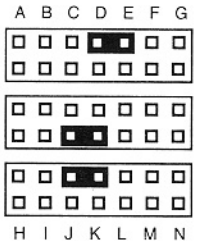
JP2



Interrupt Request (IRQ) — JP1

IRQ	JP1 Jumper Setting
*IRQ 3	D & E
IRQ 9	J & K
IRQ 5	C & D

JP1



*= *Factory Default*

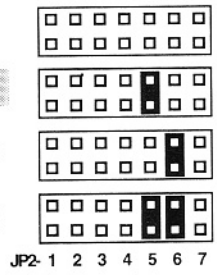
3-2.4 Bi-directional Parallel Printer Port

The parallel printer port provides a standard DB25 25-pin connector mounted on the board. It is factory set for I/O port address **378–37F** and **IRQ7**. If this conflicts with your current configuration, refer to the following table for another option.

I/O Port Address – JP2

Port	Address	Jumper Settings JP2-5	JP2-6
LPT*n*	3BC–3BE	Open	Open
*LPT*n*	378–37F	Closed	Open
LPT*n*	278–27F	Open	Closed
Disable		Closed	Closed

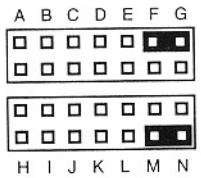
JP2



Interrupt Request (IRQ) — JP1

IRQ	JP1 Jumper Setting
*IRQ 7	F & G
IRQ 5	M & N

JP1



*= *Factory Default*

Unlike serial ports, which can be specifically set as COM1, COM2, COM3 or COM4, LPT parallel printer ports are determined by the highest I/O port address. The highest address in the system is always LPT1; the second highest, LPT2; the third, LPT3. The prioritized order for I/O port addresses is: 3BC, 378 and 278.

The following examples will help you determine how to configure the I/O Professional's parallel printer port.

Example 1:

When 0 parallel ports are already installed in your computer... the parallel port on the I/O Professional will be addressed as **LPT1** when its I/O port address is set to **378**.

Example 2:

When 1 parallel port with address 3BC is already installed... the parallel port on the I/O Professional will be addressed as **LPT2** when its I/O port address is set to **378**. (The original parallel port will be addressed as LPT1.)

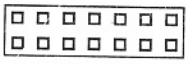
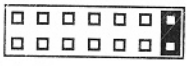
Example 3:

When 1 parallel port with address 378 is already installed... the parallel port on the I/O Professional will be addressed as **LPT2** when its I/O port address is set to **278**.
(The original parallel port will be address as LPT1.)

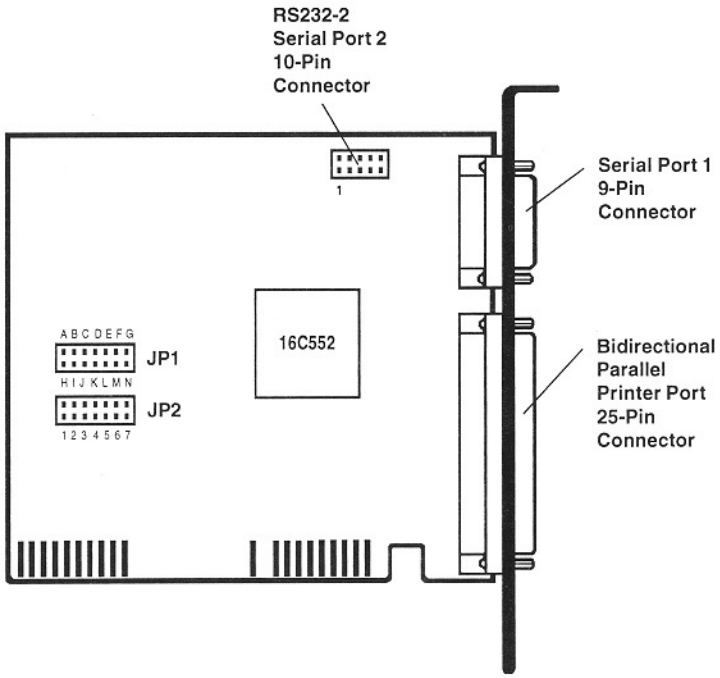
Example 4:
When 1 parallel port with address 278 is already installed... the parallel port on the I/O Professional will be addressed as **LPT1** when its I/O port address is set to **378**.
(The original parallel port will be address as LPT2.)

3-2.5 Bi-directional Parallel Port Selection — JP2-7

Jumper **JP2-7** is used to configure the parallel printer port as a bi-directional or Centronics compatible standard parallel port for direct printer interface. The factory default setting is bi-directional.

Description	JP2-7	JP2
*Bi-directional Parallel Port	Open	
Standard Parallel Port	Closed	

*= *Factory Default*



I/O Professional I/O Controller Board Layout